CLAIMS

What is claimed is:

1	1.	An audio speaker comprising:
2		a motor assembly including,
3		a magnet,
4		a first magnetically conductive member magnetically coupled to the magnet, the first
5		magnetically conductive member comprising a plurality of laminated layer sections which
6		are magnetically coupled to but electrically insulated from each other, and
7		a second magnetically conductive member magnetically coupled to the magnet,
8		a magnetic air gap between the first and second magnetically conductive members;
9		and
0		a diaphragm assembly coupled to the motor assembly and including a voice coil disposed
1	within	the magnetic air gap.
1	2.	The audio speaker of claim 1 wherein:
2		each of the laminated layer sections has a substantially uniform thickness.
1	3.	The audio speaker of claim 1 wherein:
2		the laminated layer sections are not all of the same thickness.
1	4.	The audio speaker of claim 1 wherein:
2		each of the laminated layer sections has a substantially wedge shape.
1	5.	An audio speaker comprising:
2		a diaphragm assembly including a voice coil; and
3		a motor assembly including,
4		a first magnetically conductive member,
5		a first laminated structure in which a plurality of magnetically conductive sections are
6		mechanically coupled together and electrically insulated from each other to prevent eddy
7		currents which would otherwise be induced by an electrical current applied to the voice coil,
8		and

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9		a magnet magnetically coupled between the first magnetically conductive member	
10		and the laminated structure,	
11		wherein the first magnetically conductive member and the laminated structure define	
12		between them a magnetic air gap within which the voice coil is disposed.	
1	6.	The audio speaker of claim 5 wherein:	
2		the first laminated structure comprises a top plate.	
1	7.	The audio speaker of claim 5 wherein:	
2		the first laminated structure comprises a pole yoke.	
1	8.	The audio speaker of claim 5 wherein:	
2		the first laminated structure comprises a cup yoke.	
1	9.	The audio speaker of claim 5 wherein:	
2		the first laminated structure comprises a tube yoke.	
1	10.	An improvement in a electromagnetic motor structure which includes a magnetically	
2	cond	conductive yoke, a magnetically conductive plate defining a magnetic air gap with the yoke, and a	
3	perm	permanent magnet magnetically coupled between the yoke and the plate, wherein the improvement	
4	comprises:		
5		at least one of the yoke and the plate being comprised of multiple components laminated	
6	toget	together so as to be electrically insulated from each other;	
7		whereby the at least one of the yoke and the plate which is laminated has a significantly	
8	reduc	reduced susceptibility to eddy currents being induced therein by a varying magnetic flux field from	
9	voice	coil in the magnetic air gap.	
1	11.	The improvement in the electromagnetic motor structure of claim 10, wherein the	
2	impro	improvement further comprises:	
3		the multiple laminated components each having one of a substantially flat shape and a	
4	subst	substantially wedge shape.	

- 1 12. The improvement in the electromagnetic motor structure of claim 10, wherein the
- 2 improvement further comprises:
- both the yoke and the plate being so laminated.
- 1 13. The improvement in the electromagnetic motor structure of claim 10, wherein the
- 2 improvement further comprises:
- 3 the yoke comprising one of a cup, a pole plate, and a tube.

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